





# Operator's manual HUSQVARNA AUTOMOWER® 535 AWD



Read the operator's manual carefully and make sure that you understand the instructions before you use the product.

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## 1 Introduction

#### Serial number:

#### PIN code:

The serial number is on the product rating plate and on the product carton.

• Use the serial number to register your product on www.husqvarna.com.

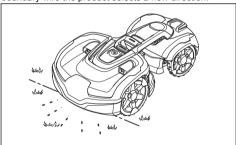
## 1.1 Support

For support about the product, speak to your Husqvarna servicing dealer.

# 1.2 Product description

**Note:** Husqvarna regularly updates the appearance and function of the products. Refer to *Support on page 3*.

The product is a robotic lawn mower. The product has a battery power source and cuts the grass automatically. It continuously alternates between mowing and charging. The movement pattern is random, which means that the lawn is mowed evenly and with less wear. The boundary wire and the guide wire controls the movement of the product within the work area. Sensors in the product senses when it is approaching the boundary wire. The front of the product always passes the boundary wire by a specific distance before the product turns around. When the product hits an obstacle or approaches the boundary wire the product selects a new direction.



The operator selects the operation settings in the Automower<sup>®</sup> Connect app. The app shows the selected and possible operation settings, and the operation mode of the product.

## 1.2.1 Mowing technique

The product is emission free, easy to use and saves energy. The frequent cutting technique improves the grass quality and decreases the use of fertilizers. Collection of grass is not necessary.

#### 1.2.2 Find the charging station

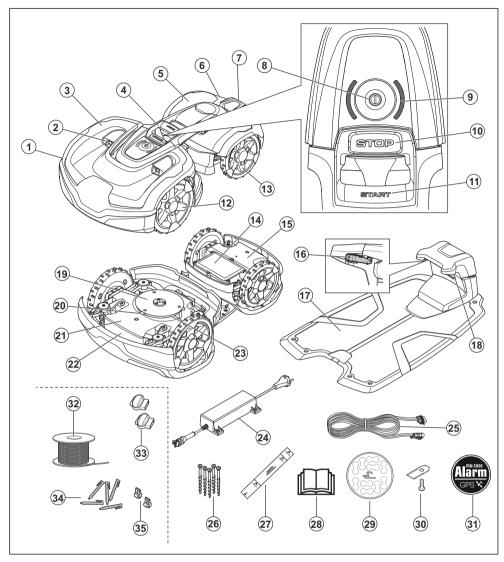
The product operates until the battery state of charge is low, then it starts to go to the charging station. The product has 3 search methods to find the charging station. Refer to *To find the charging station on page 27* 

#### 1.3 Automower® Connect

Automower<sup>®</sup> Connect is a mobile application that makes it possible to select the operation settings remotely. Refer to *Automower*<sup>®</sup> *Connect on page 23*.

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# 1.4 Product overview



- 1. Front body
- 2. Ultrasonic sensors
- 3. Front top cover
- 4. Lifting handle
- 5. Rear top cover
- 6. Rear body
- 7. Charging plates

- 8. On/Off-button
- 9. LED status indicator
- 10. STOP button
- 11. START button
- 12. Front wheels
- 13. Rear wheels
- 14. Battery cover

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- Rear chassis box with electronics, motors and battery
- 16. LED for operation check of the charging station and boundary wire
- 17. Charging station
- 18. Contact strips
- 19. Skid plate
- 20. Blades
- 21. Front chassis box with electronics and motors
- 22. Rating plate (incl. product identification code)
- 23. Blade disc
- Power supply (the appearance of the power supply may differ depending on market)
- 25. Low voltage cable
- 26. Screws for securing the charging station
- 27. Measurement gauge for help when installing the boundary wire (the measurement gauge is broken loose from the box)
- 28. Operator's Manual and Quick Guide
- 29. Cable markers
- 30. Extra blades
- 31. Alarm decal
- 32. Loop wire for boundary loop and guide wire <sup>1</sup>
- 33. Couplers for loop wire 2
- 34. Stakes<sup>3</sup>
- 35. Connector for the loop wire 4

# 1.5 Symbols on the product

These symbols can be found on the product. Study them carefully.



**WARNING:** Read the user instructions before operating the product.





**WARNING:** Disable the product before working on or lifting the product.





**WARNING:** Keep a safe distance from the product when operating. Keep your hands and feet away from the rotating blades.

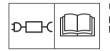




**WARNING:** Do not ride on the product. Never put your hands or feet close to or under the product.



Never use a high-pressure washer or even running water to clean the product.



Use a detachable power supply as defined on the rating label next to the symbol.



This product conforms to the applicable EC Directives.



It is not permitted to dispose this product as normal household waste. Ensure that the product is recycled in accordance with local legal requirements.



The chassis contains components which are sensitive to electrostatic discharge (ESD). The chassis must also be resealed in a professional manner. For these reasons the chassis shall only be opened by authorized service technicians. A broken seal can result in the entire or parts of the warranty no longer being valid.



The low-voltage cable must not be shortened, extended or spliced.

Do not use a trimmer nearby the lowvoltage cable. Be careful when trimming edges where the cables are placed.

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<sup>1</sup> Is a part of the Installation kit which is purchased separately.

<sup>&</sup>lt;sup>2</sup> Refer to note 1

<sup>3</sup> Refer to note 1

<sup>&</sup>lt;sup>4</sup> Refer to note 1

# 1.6 Symbols on the battery



Read the user instructions.



Do not discard the battery into fire and do not expose the battery to a heat source.



Do not immerse the battery into water.

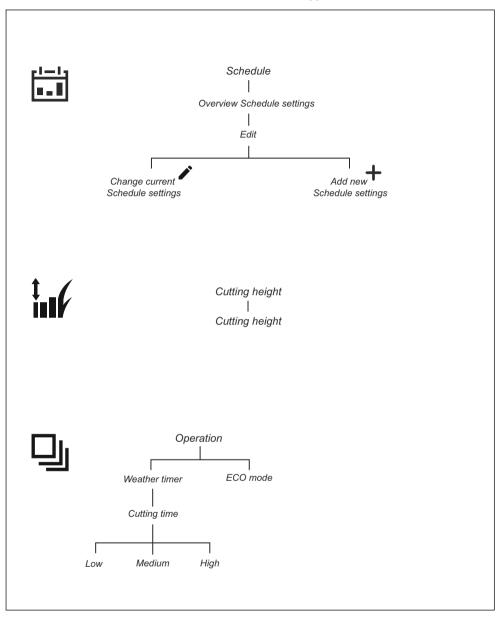
# 1.7 General safety instructions

The following system is used in the Operator's Manual to make it easier to use:

- Text written in italics is a text that is shown in the Automower® Connect app or is a reference to another section in the Operator's Manual.
- Text written in **bold** is one of the buttons on the product.
- Text written in UPPERCASE and italics refer to the different operating modes available in the product.

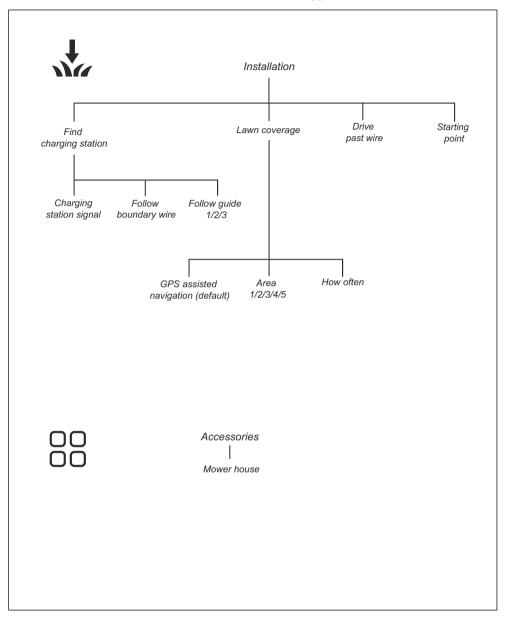
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# 1.7.1 Menu structure overview in Automower® Connect app 1/3



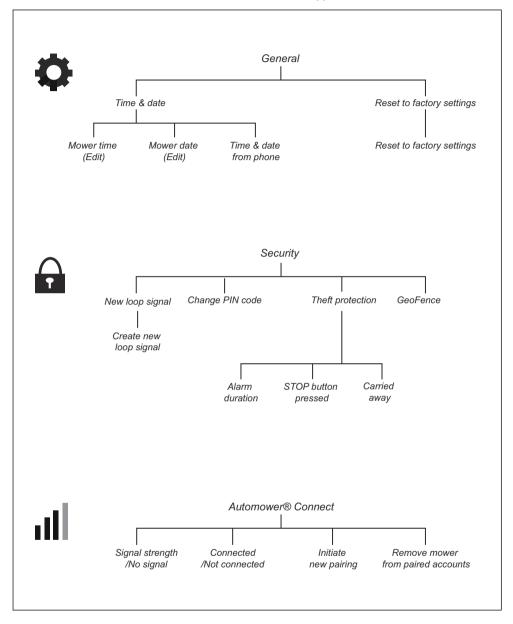
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# 1.7.2 Menu structure overview in Automower® Connect app 2/3



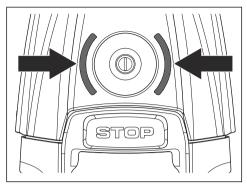
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# 1.7.3 Menu structure overview in Automower® Connect app 3/3



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# 1.7.4 LED status indicator



LED indication	Status
Green	In operation
Blue	Parked
Red	Error
Yellow	Paused/stopped
Flashing yellow	PIN code needed
Pulsating green/blue	Charging in progress
Flashing green/blue	Push the <b>ON/OFF</b> button to confirm start of operation
Flashing green, low-frequent	Inactive
White	While switching off

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# 2 Safety

# 2.1 Safety information

# 2.1.1 IMPORTANT. READ CAREFULLY BEFORE USE. KEEP FOR FUTURE REFERENCE

The operator is responsible for accidents or hazards occurring to other people or property.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities (that could affect a safe handling of the product), or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Local regulations may restrict the age of the operator. Cleaning and maintenance shall not be made by children without supervision.

Never connect the power supply to an outlet if the plug or cord is damaged. Worn or damaged cord increase the risk of electric shock.

Only charge the battery in the included charging station. Incorrect use may result in electric shock, overheating or leaking of corrosive liquid from the battery. In the event of leakage of electrolyte, flush with water/neutralizing agent. Seek medical help if it comes in contact with the eyes.

Use only original batteries recommended by the manufacturer. Product safety cannot be guaranteed with other than original batteries. Do not use non-rechargeable batteries.

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The appliance must be disconnected from the supply mains when removing the battery.



**WARNING:** The product can be dangerous if used incorrectly.



WARNING: Do not use the product when persons, especially children, or animals are in the work area.



WARNING: Keep your hands and feet away from the rotating blades. Never put your hands or feet close to or under the product when it is switched on.



WARNING: In the event of an injury or accident seek medical help.

# 2.2 Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



**WARNING:** Used if there is a risk of injury or death for the operator or bystanders if the instructions in the manual are not obeyed.



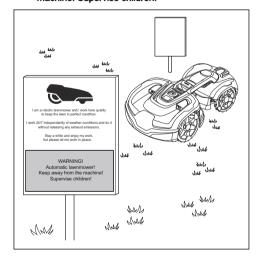
**CAUTION:** Used if there is a risk of damage to the product, other materials or the adjacent area if the instructions in the manual are not obeyed.

**Note:** Used to give more information that is necessary in a given situation.

# 2.3 Safety instructions for operation

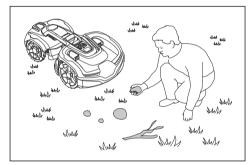
#### 2.3.1 Use

- The product may only be used with the equipment recommended by the manufacturer. All other types of use are incorrect. The manufacturer's instructions with regard to operation/maintenance must be followed precisely.
- The product may only be operated, maintained and repaired by persons that are fully conversant with its special characteristics and safety regulations.
   Please read the Operator's Manual carefully and make sure you understand the instructions before using the product.
- It is not permitted to modify the original design of the product. All modifications are made at your own risk.
- Warning signs shall be placed around the work area of the product if it is used in public areas. The signs shall have the following text: Warning!
   Automatic lawn mower! Keep away from the machine! Supervise children!



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- Use the park mode, refer to Park on page 31 or switch off the product when persons, especially children or animals are in the work area. Refer to To switch off the product on page 32. It is recommended to program the product for use during hours when the area is free from activity. Consider that certain animals, e.g. hedgehogs, are active at night. They can potentially be harmed by the product. Refer to Schedule on page 25.
- Do not install the charging station, including any accessory, at a location that is below, or within 60 cm / 24 in. from, any combustible material. Do not install the power supply unit in easily flammable surroundings. In case of malfunction, heating of the charging station and the power supply may occur and create a potential risk of fire.
- Check that there are no foreign objects such as stones, branches, tools or toys on the lawn. If the blades hit foreign objects the blades can be damaged. Always switch off the product before clearing a blockage. Inspect the product for damage before staring the product again. Refer to To switch off the product on page 32.



- If the product starts to vibrate abnormally. Always switch off the product and inspect for damage before staring the product again. Refer To switch off the product on page 32.
- Switch on the product according to the instructions. When the product is switched on; make sure to keep your hands and feet away from the rotating blades. Never put your hands and feet under the product.
- Never touch moving hazardous parts, such as the blade disc, before it has come to a complete stop.
- Never lift up the product or carry it around when it is switched on.
- The product must never be allowed to collide with persons or other living creatures. If a person or other living creature comes in the way of the product, it shall be stopped immediately. Refer to To stop the product on page 32.
- Do not put anything on top of the product or its charging station.

- Do not allow the product to be used with a defective guard, blade disc or body. Neither should it be used with defective blades, screws, nuts or cables. Never connect a damaged cable, or touch a damaged cable before it is disconnected from the supply.
- Do not use the product if the **STOP** button does not work
- Always switch off the product when it is not in use.
   The product can only start when the correct PIN code has been entered.
- The product must never be used at the same time as a sprinkler. Use the Schedule function so the product and sprinkler never run simultaneously.
   Refer to Schedule on page 25.
- Husqvarna does not guarantee full compatibility between the product and other types of wireless systems such as remote controls, radio transmitters, hearing loops, underground electric animal fencing or similar.
- The built-in alarm is very loud. Be careful, especially if the product is handled indoors.
- Metal objects in the ground (for example reinforced concrete or anti-mole nets) can result in a stoppage. The metal objects can cause interference with the loop signal which then can lead to a stoppage.
- Operation and storage temperature is 0-50 °C / 32-122 °F. Temperature range for charging is 0-45 °C / 32-113 °F. Too high temperatures might cause damage to the product.

## 2.3.2 Battery safety



WARNING: Lithium-ion batteries can explode or cause fire if disassembled, short-circuited, exposed to water, fire, or high temperatures. Handle carefully, do not dismantle, open the battery or use any type of electrical/mechanical abuse. Avoid storage in direct sunlight.

For more information about the battery, refer to *Battery* on page 38

#### 2.3.3 How to lift and move the product



**WARNING:** The product must be switched off before you lift it. The product is switched off when the LED status indicator is not lif.

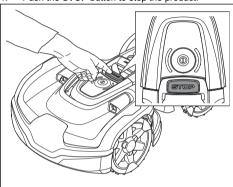
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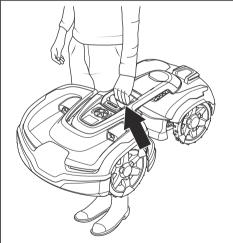
**CAUTION:** Do not lift the product when it is parked in the charging station. It can damage the charging station and/or the product. Push the **STOP** button and pull the product out of the charging station before lifting it.

To safely move from or within the work area:

1. Push the **STOP** button to stop the product.



- Enter the PIN code if required.
- Push the **ON/OFF** button for 3 seconds to switch off the product.
- 4. Make sure that the LED status indicator is not lit.
- Carry the product by the lifting handle.



#### 2.3.4 Maintenance



**WARNING:** The product must be switched off before it is turned upside down and before any maintenance is done.



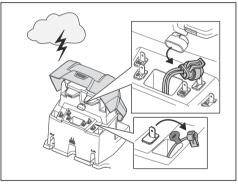
**CAUTION:** Do not use a high-pressure washer or even running water to clean the product. Do not use solvents for cleaning.



**WARNING:** Use the plug to disconnect the charging station before any cleaning or maintenance of the charging station or the loop wire.

Inspect the product each week and replace any damaged or worn parts. Refer to *Maintenance on page 34*.

#### 2.3.5 In the event of a thunderstorm



To reduce the risk of damage to electrical components in the product and the charging station, we recommend that all connections to the charging station are disconnected (power supply, boundary wire and guide wire) if there is a risk of a thunderstorm.

- Mark the wires to simplify reconnecting. The charging station's connections are marked AR, AL and G1, G2, G3.
- Disconnect all connected wires and the power supply.
- Connect all the wires and the power supply if there is no longer a risk of thunder. It is important that each wire is connected to the right place.

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## 3 Installation

#### 3.1 Introduction - Installation



**WARNING:** Read and understand the safety chapter before you install the product.



**CAUTION:** Use original spare parts and installation material.

**Note:** Refer to www.husqvarna.com for more information about installation.

# 3.2 Main components for installation

The installation involves the following components:

- A robotic lawn mower that mows the lawn automatically.
- A charging station, which has 3 functions:
  - To send control signals along the boundary wire
  - To send control signals along the guide wire so that the product can follow the guide to specific remote areas in the garden and can find its way back to the charging station.
  - · To charge the product.
- A power supply, which is connected to the charging station and a 100-240V power outlet.
- Loop wire, which is laid around the work area and around objects and plants that the product must not run into. The loop wire is used both as boundary wire and guide wire.

## 3.3 General preparations



**CAUTION:** Holes with water in the lawn can cause damage to the product.

**Note:** Read through the Installation chapter before beginning the installation. How the installation is done affects how the product performs. It is therefore important to plan the installation carefully.

- Make a blueprint of the work area and include all obstacles. This makes it easier to see the ideal positions for the charging station, the boundary wire and the guide wire.
- Make a mark on the blueprint where to put the charging station, the boundary wire and the guide wire.

- Make a mark on the blueprint where the guide wire connects to the boundary wire. Refer to *To install* the guide wire on page 21.
- Fill in holes in the lawn.
- Cut the grass before you install the product. Make sure that the grass is maximum 10 cm / 4 in.

**Note:** The first weeks after installation the perceived sound level when cutting the grass may be higher than expected. When the product has cut the grass for some time, the perceived sound level is much lower.

#### 3.4 Before the installation of the wires.

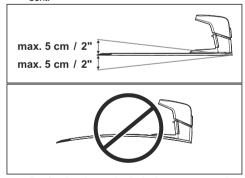
You can select to attach the wires with stakes or bury them. You can use the 2 procedures for the same work area.



**CAUTION:** If you use a dethatcher in the work area, bury the boundary wire and the guide wire to prevent them from damage.

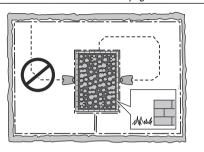
# 3.4.1 To examine where to put the charging station

- Keep a minimum 3 m / 10 ft. of free space in front of the charging station.
- Keep a minimum of 1.5 m / 5 ft. of free space to the right and to the left of the charging station.
- · Put the charging station near a power outlet.
- · Put the charging station on a level surface.
- The baseplate of the charging station must not be bent



- Put the charging station in the largest open section of the work area.
- Put the charging station in an area without an irrigation system.

- Put the charging station in an area with protection from the sun.
- If the charging station is installed on an island, make sure to connect the guide wire to the island.
   Refer to To make an island on page 18.



# 3.4.2 To examine where to put the power supply



**WARNING:** Do not cut or extend the low-voltage cable. There is a risk of electrical shock.



**CAUTION:** Make sure that the blades on the product do not cut the low-voltage cable.



**CAUTION:** Do not put the low-voltage cable in a coil or below the charging station plate. The coil causes interference with the signal from the charging station.



- Put the power supply in an area with a roof and protection from the sun and rain.
- Put the power supply in an area with good airflow.
- Use a residual-current device (RCD) with a tripping current of maximum 30 mA when you connect the power supply to the power outlet.

Low-voltage cables of different lengths are available as accessories.

# 3.4.3 To examine where to put the boundary wire



**CAUTION:** There must be a barrier of minimum 15 cm / 6 in. in height between the boundary wire and water bodies, slopes, precipices or public roads. This will prevent damage to the product.



**CAUTION:** Do not let the product operate on gravel.



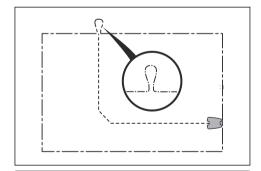
**CAUTION:** Do not make sharp bends when you install the boundary wire.



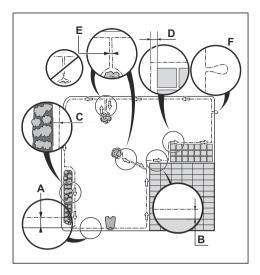
**CAUTION:** For careful operation without noise, isolate all obstacles such as trees, roots and stones.

The boundary wire should be put as a loop around the work area. Sensors in the product senses when the product approaches the boundary wire, and the product selects another direction. All parts of the work area must be maximum 35 m / 115 ft. from the boundary wire.

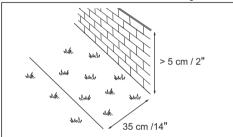
To make the connection easier between the guide wire and the boundary wire, it is recommended to make an eyelet where the guide wire will be connected. Make the eyelet with approximately 20 cm / 8 in. of the boundary wire.



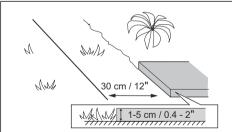
**Note:** Make a blueprint of the work area before you install the boundary wire and guide wire.



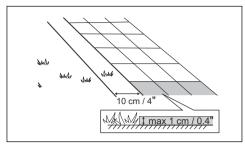
- Put the boundary wire around all of the work area (A). Adapt the distance between the boundary wire and obstacles.
- Put the boundary wire 35 cm / 14 in. (B) from an obstacle that is more than 5 cm / 2 in. high.



 Put the boundary wire 30 cm / 12 in. (C) from an obstacle that is 1-5 cm / 0.4-2 in. high.



 Put the boundary wire 10 cm / 4 in. (D) from an obstacle that is less than 1 cm / 0.4 in. high.



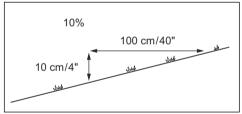
If you have a paving stone path that is in level with the lawn, put the boundary wire below the paving stone.

**Note:** If the paving stone is minimum 30 cm / 12 in. wide, use the factory setting for the *Drive Past Wire* function to cut all the grass adjacent to the paving stone. Refer to *Drive Past Wire on page 28*.

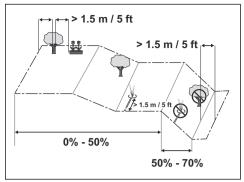
- If you make an island, put the boundary wire that runs to and from the island near together (E). Put the wires in the same stake. Refer to To make an island on page 18.
- Make an eyelet (F) where the guide wire is to be connected to the boundary wire.

#### 3.4.3.1 To put the boundary wire in a slope

The product can operate in 70% slopes. Slopes that are too steep must be isolated with the boundary wire. The gradient (%) is calculated as height per m. Example: 10 cm / 100 cm = 10%.



- For slopes up to 50% steep inside the work area, the product will operate normally. Keep a distance of 1.5 m / 5 ft between the boundary wire and obstacles, or between obstacles.
- For slopes between 50-70% steep, make sure that there are no obstacles in the slope. There must be a distance of 1.5 m / 5 ft from the bottom of the slope to the boundary wire.



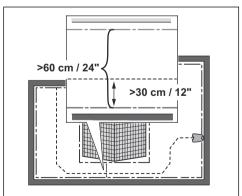
 For slopes adjacent to a public road, put an obstacle of minimum 15 cm / 6 in. along the outer edge of the slope. You can use a wall or a fence as an obstacle.

#### 3.4.3.2 Passages

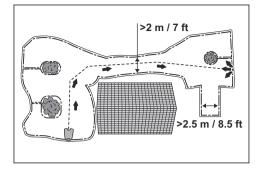
A passage is a section that has boundary wire on each side and that connects 2 parts of the work area. The passage must be a minimum of 2 m / 6.5 ft wide to get a good cutting result. Short passages can be as narrow as 60 cm / 2 ft., if a guide wire is installed through the passage. A long narrow passage can have a negative impact of the cutting result.

**Note:** If a passage is less than 2 m / 6.5 ft. wide, install a guide wire through the passage.

The product always runs to the left of the guide wire as seen facing the charging station. It is recommended that the distance between the guide wire and boundary wire is one third of the total width of the passage on the right side and two thirds of the total width of the passage to the left of the guide wire (A). The minimum distance between the guide wire and the boundary wire is 30 cm / 12 in.



A dead end must be a minimum of 2.5 m / 8.5 ft. wide.



#### 3.4.3.3 To make an island



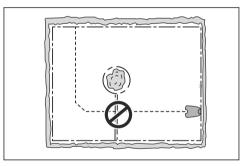
**CAUTION:** Do not put a section of boundary wire across the other. The sections of boundary wire must be parallel.



**CAUTION:** Do not put the guide wire across the boundary wire.



**CAUTION:** Isolate or remove obstacles that are less than 15 cm / 6 in. in height. Isolate or remove obstacles that slope slightly, for example, stones, trees or roots. This will prevent damage to the blades of the product.

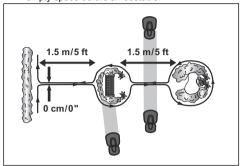


To make an island, isolate areas in the work area with the boundary wire. We recommend to isolate all stable objects in the work area.

Some obstacles are resistant to a collision, for example, trees or bushes that are more than 15 cm / 6 in. in height. The product will collide with the obstacle and then select a new direction.

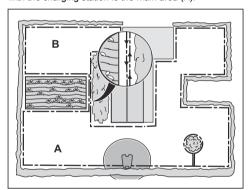
 Put the boundary wire to and around the obstacle to make an island.

- Put the 2 sections of boundary wire to and from the island close together. This will make the product run across the wire.
- Put the 2 sections of boundary wire in the same stake.
- Make sure that there is a minimum of 1.5 m / 5 ft of empty space before an obstacle.



#### 3.4.3.4 To make a secondary area

Make a secondary area (B) if the work area has 2 areas that are not connected with a passage. The work area with the charging station is the main area (A).



**Note:** The product must be manually moved between the main area and the secondary area.

 Put the boundary wire around the secondary area (B) to make an island. Refer to To make an island on page 18.

**Note:** The boundary wire must be put as 1 loop around all of the work area (A + B).

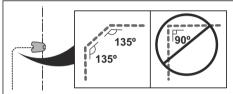
**Note:** When the product cuts grass in the secondary area, the *Secondary area* mode must

be selected. Refer to Secondary area on page 31.

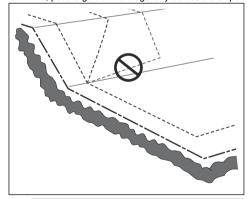
# 3.4.4 To examine where to put the guide wire

Put the guide wire from the charging station through the work area and connect it to the boundary wire. This product has 3 guide wires. Use the same approach for all guide wires.

- Put the guide wire in a line at a minimum of 2 m / 7 ft. in front of the charging station.
- Make sure that the guide wire has as much free area as possible to the left of the guide wire when facing the charging station.
- Put the guide wire minimum 30 cm / 12 in. from the boundary wire.
- Do not make sharp bends when you install the guide wire.



 If the work area has a slope, put the guide wire in a straight line from the bottom of the slope to the top of the slope. If it is not possible to make a straight line, put the guide wire diagonally across the slope.





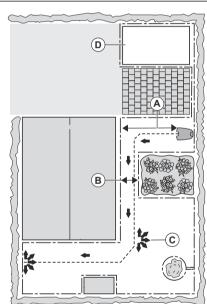
**CAUTION:** Do not put the guide wire in parallel with the slope, as the illustration shows. This can increase the wear on the grass.

## 3.4.5 Work area examples

 If the charging station is put in a small area (A), make sure that the distance to the boundary wire is

at a minimum 3 m / 10 ft. in front of the charging station

- If the work area has a passage (B) with no guide wire installed, the recommended minimum distance between the boundary wires is 2 m / 6.5 ft. With a guide wire installed through the passage, the recommended minimum distance between the boundary wires is 60 cm / 24 in.
- If the work area has areas which are connected by a narrow passage (B), you can set the product to first follow and then leave the guide wire after a certain distance (C). The settings can be changed in Lawn coverage on page 27.
- Use the GPS Assisted Navigation that helps the product select the most optimal operation. Refer to To set the GPS function on page 27.
- If the work area includes a secondary area (D), refer to To make a secondary area on page 19.
   Put the product in the secondary area and select Secondary area mode.



# 3.5 Installation of the product

#### 3.5.1 Installation tools

- Hammer/plastic mallet: To simplify putting the stakes into the ground.
- Edge cutter/straight spade: To bury the boundary wire
- Combination pliers: For cutting the boundary wire and pressing the connectors together.

Adjustable plier: For pressing the couplers together.

#### 3.5.2 To install the charging station



**WARNING:** Obey national regulations about electrical safety.



**WARNING:** The product is only to be used with the power supply unit supplied by Husqvarna.



**WARNING:** Do not put the power supply at a height where there is a risk it can be put in water. Do not put the power supply on the ground.



WARNING: Do not encapsulate the power supply. Condensed water can harm the power supply and increase the risk of electrical shock.



WARNING: Risk of Electric Shock. Install only to a residual-current device (RCD) with a tripping current of maximum 30 mA when connecting the power supply to the power outlet. Applicable to USA/Canada. If power supply is installed outdoors: Risk of Electric Shock. Install only to a covered Class A GFCI receptacle (RCD) that has an enclosure that is weatherproof with the attachment plug cap inserted or removed.



**CAUTION:** Do not make new holes in the charging station plate.



**CAUTION:** Do not put your feet on the baseplate of the charging station.



**WARNING:** The power supply cable and extension cable must be outside the work area to avoid damage to the cables.

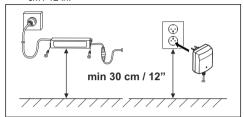
When connecting the power supply, only use a power outlet that is connected to a residual-current device (RCD).

 Read and understand the instructions about where to put the charging station. Refer to To examine where to put the charging station on page 15.

Put the charging station in the selected area.

**Note:** Do not attach the charging station with the screws to the ground until the guide wire is installed. Refer to *To install the guide wire on page 21* 

- Connect the low-voltage cable to the charging station.
- 4. Put the power supply at a minimum height of 30 cm / 12 in.



Connect the power supply cable to a 100-240V power outlet.

**Note:** When the charging station is connected, it is possible to charge the product. Put the product in the charging station while the boundary and guide wires are being laid. Switch on the product to start charging the product. Refer to *To switch on the product on page 31*. Do not continue with any product settings before the installation is complete.

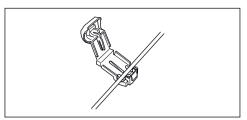
- Put the low-voltage cable in the ground with stakes or bury the cable. Refer to To put the wire into position with stakes on page 22 or To bury the boundary wire or the guide wire on page 22.
- Connect the wires to the charging station after the installation of boundary wire and guide wire is complete. Refer to To install the boundary wire on page 21 and To install the guide wire on page 21.
- Attach the charging station to the ground with the supplied screws after the guide wire is installed.
   Refer to To install the guide wire on page 21.

#### 3.5.3 To install the boundary wire

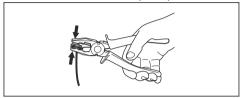


**CAUTION:** Do not put remaining wire in a coil. The coil causes interference with the product.

- Put the boundary wire around all of the work area. Start and complete the installation behind the charging station.
- Open the connector and put the boundary wire in the connector.



3. Close the connector with a pair of pliers.



- Cut the boundary wire 1-2 cm / 0.4-0.8 in. above each connector.
- Put the right end of boundary wire into the channel with the mark "AR".
- Put the left end of boundary wire into the channel with the mark "AL".
- Push the right connector onto the metal pin on the charging station with the mark "AR".
- 8. Push the left connector onto the metal pin on the charging station with the mark "AL".
- Put the cable mark on the left and right boundary wire. Do not walk on the charging station.

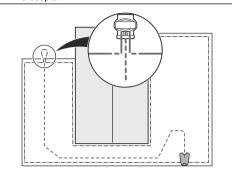
## 3.5.4 To install the guide wire



**CAUTION:** Twinned cables, or a screw terminal block that is insulated with insulation tape are not satisfactory splices. Soil moisture will cause the wire to oxidize and after a time result in a broken circuit.

- Open the connector and put the wires in the connector.
- 2. Close the connector with a pair of pliers.
- Cut the guide wires 1-2 cm / 0.4-0.8 in. above each connector.
- Put the guide wires centrally below the charging station plate, and push them through the slot in the charging station tower.
- Push the connector onto the metal pin on the charging station with the mark "G1, G2" or "G3".
- Disconnect the charging station from the power outlet.
- 7. Put the cable mark on the guide wires.
- Put the end of the guide wires at the eyelet on the boundary wire.

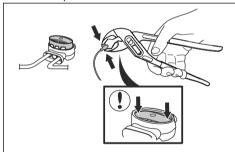
- 9. Cut the boundary wire with a pair of wire cutters.
- Connect the guide wires to the boundary wire with a coupler.



 Put the 2 ends of the boundary wire and the end of the guide wires into the coupler.

**Note:** Make sure that you can see the end of the guide wires through the transparent area of the coupler.

b) Push down the cover on the coupler with adjustable pliers to attach the wires in the coupler.



- 11. Attach the guide wires to the ground with stakes or bury the guide wires in the ground. Refer to To put the wire into position with stakes on page 22 or To bury the boundary wire or the guide wire on page 22.
- 12. Connect the charging station to the power outlet.

# 3.6 To put the wire into position with stakes



**CAUTION:** Make sure that the stakes hold the boundary wire and the guide wire against the ground.



**CAUTION:** Cutting the grass too low right after installation can damage the wire insulation. Damage to the insulation may not cause disruptions until several weeks or months later.

- Put the boundary wire and the guide wire on the ground.
- Put the stakes at a maximum of 75 cm / 30 in. distance from each other.
- Attach the stakes to the ground with a hammer or a plastic mallet.

**Note:** The wire is overgrown with grass and not visible after a few weeks.

# 3.7 To bury the boundary wire or the guide wire

- Cut a groove in the ground with an edge cutter or a straight shovel.
- Put the boundary wire or the guide wire 1-20 cm / 0.4-8 in. into the ground.

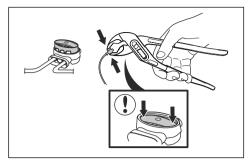
# 3.8 To extend the boundary wire or the guide wire

**Note:** Extend the boundary wire or the guide wire if it is too short for the work area. Use original spare parts, for example couplers.

- Disconnect the charging station from the power outlet
- Cut the boundary wire or the guide wire with a pair of wire cutters where it is necessary to install the extension.
- Add wire where it is necessary to install the extension.
- 4. Put the boundary wire or the guide wire into position.
- 5. Put the wire ends into a coupler.

**Note:** Make sure that you can see the ends of the boundary wire or the guide wire through the transparent area of the coupler.

6. Push down the cover on the coupler with adjustable pliers to attach the wires in the coupler.

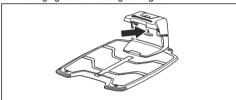


- Put the boundary wire or the guide wire into position with stakes.
- 8. Connect the charging station to the power outlet.

## 3.9 After the installation of the product

# 3.9.1 To do a visual check of the charging station

 Make sure that the indicator LED lamp on the charging station has a green light.



 If the indicator LED lamp does not have a green light, do a check of the installation. Refer to Indicator lamp in the charging station on page 46 and To install the charging station on page 20.

#### 3.10 Automower® Connect

The product has Automower<sup>®</sup> Connect included from factory.

The app gives 2 modes of connectivity: Long-range cellular connectivity and Short-range Bluetooth® connectivity.

The product can connect to mobile devices that have the Automower® Connect app installed. Automower® Connect is a free app for your mobile device. The Automower® Connect app gives extended functions to your Husqyarna product. You can:

- See the status of your product.
- Change settings to your product.
- · Get extended product information.
- Get an alarm if the product moves out of the work area.
- See statistics of your product.

**Note:** All countries do not support Automower® Connect because of regional specified cellular systems. The included Automower® Connect lifetime service only applies if there is a third part sub-supplier of 2G/3G/4G available in the operational area.

# 3.10.1 To install the Automower® Connect app

- Download the Automower<sup>®</sup> Connect app on your mobile device.
- 2. Sign up for a Husqvarna account in the Automower® Connect app.
- An e-mail is sent to the registered e-mail address.
   Follow the instructions in the e-mail in less than 24 hours to validate your account.
- 4. Log in to your Husqvarna account in the Automower® Connect app.

# 3.10.2 To pair Automower<sup>®</sup> Connect and the product

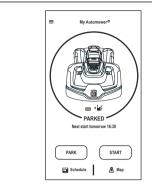
- 1. Do step 1-6 in *To start the product for the first time* on page 25.
- Obey the instructions in the Automower<sup>®</sup> Connect app.

#### 3.10.3 Dashboard

The dashboard shows the current status of the product both visually and in text. It is very easy to control the product by selecting the options, for example *Park*. Refer to *User interface overview on page 25*.

In the lower part of the dashboard there are shortcuts to the *Schedule settings* and the *Map*. The dashboard also shows symbols according to below:

- The battery status shows the battery state of charge. A flash is shown over the battery symbol when the product charges its battery. A plug is shown over the battery symbol when the product is in the charging station without charging.
- 2. Cutting height.



For more information about the operating modes *Start*, *Park* and *Pause*, refer to *Operation on page 31*.

#### 3 10 4 Account

In this menu there is an overview of the account settings and you can log off from the app.

#### 3.10.4.1 To set the unit format

1. Select the unit format Metric or Imperial.

#### 3.10.5 My mowers

When you choose *My mowers* you can manage all the products paired to your account, as well as add new ones. If there are several paired products it is possible to select one of them as Current mower.

To pair a new product to the Automower® Connect app:

- Select the plus sign (+).
- 2. Select model.
- Obey the instructions in the Automower® Connect app to finish the pairing.

#### 3.10.6 Map

The map shows the current position of the product and the set centerpoint for GeoFence.

#### 3.10.6.1 Map settings

- Open Map in the main menu.
- 2. Select the settings symbol.
- 3. Enable or disable Movement path.
- Enable or disable GeoFence radius.

Select Map view or Satellite view.

# 3.10.7 Download firmware over the air (Firmware over the air FOTA)

The product has a function that automatically downloads new firmware. When a new firmware is available, a notification shows in the app where you can select to install the new firmware. In the factory setting this function is enabled.

# 3.10.7.1 To set the function to download firmware over the air (Firmware over the air FOTA)

- 1. Select My Mowers.
- 2. Select Mower information for the current mower.
- 3. Select *on/off* to enable or disable the function.

#### 3.10.8 Automower® Direct

Automower<sup>®</sup> Direct uses short-range Bluetooth<sup>®</sup> communication, and is included in Automower<sup>®</sup> 535 AWD.

Husqvarna cannot guarantee the time period or coverage of the long-range cellular connectivity. It is possible to communicate with the product through Bluetooth® if you are in short-range of the product. You can use Automower® Direct without a Husqvarna account as long as you have the product PIN code.

#### 3.10.8.1 To start to use Automower® Direct

- Download the Automower<sup>®</sup> Connect app on your mobile device.
- Select Automower<sup>®</sup> Direct on the start screen of the Automower<sup>®</sup> Connect app.
- Start Bluetooth® on your mobile device and on the product, refer to To start the product for the first time on page 25.
- Go to the Settings symbol in the display and activate Bluetooth®.
- Select the product to pair with in the Automower<sup>®</sup> Connect app.
- 6. Enter the PIN code for the product.

**Note:** You have access to the menus and functions as long as you are in Bluetooth® short-range.

#### 3.10.9 User interface overview

The user interface overview below shows examples of Automower® Connect.

# Automower® Connect MOWING PARKED PAUSED ERROR Mowing session ends 13:30 Next start tomorrow 16:30 Charging station Blocked MORE DETAILS PAUSE PARK START PARK START <u></u> Мар **A** Map **₽** Map

# 3.11 To start the product for the first time

When the product is switched on for the first time, there are some basic settings to do before the product can start to operate.

 Push the **ON/OFF** button for 3 seconds to switch on the product.

**Note:** The Bluetooth® pairing mode is on for 3 minutes and the LED light is flashing blue. If the product does not pair with Bluetooth® in 3 minutes, switch off the product. Wait until the LED status indicator is not lit, and then switch on the product again.

- 2. Enter the factory PIN code.
- Log on to your Husqvarna account in the Automower<sup>®</sup> Connect app to pair your product with Automower<sup>®</sup> Connect.

**Note:** It is recommended to pair your product with Automower® Connect to get access to all functions in the product. If it is not necessary to pair your product with Automower® Connect, push the *arrow* symbol to continue to the menu.

- 4. Start Bluetooth® on your mobile device.
- 5. Select *My mowers* in the Automower® Connect app, and then select the plus sign (+).
- Select model. The Automower® Connect app searches for available products within short-range (Bluetooth®).

- 7. Select product.
- Obey the instructions in the Automower<sup>®</sup> Connect app.

# 3.12 Settings in Automower® Connect

The product has factory settings but the settings can be adapted to each work area.

#### 3.12.1 Schedule



In *Schedule* you can change the schedule settings for the product.

The schedule function controls which hours the product should operate and not operate. When the product is not operating it is parked in the charging station. The operating hours and days can be seen in an overview in the Automower<sup>®</sup> Connect app.

The default schedule setting allows the product to operate around the clock 7 days a week. This is normally a suitable setting for a work area corresponding to the maximum capacity. If the work area is less than the maximum capacity the schedule should be used to minimize wear on the grass and to the product.

To calculate the schedule setting, refer to *To calculate the schedule setting on page 26.* 

#### 3.12.1.1 To edit the schedule settings

- 1. Select Settings > Schedule > Edit in the app.
- 2. Select the pencil symbol in the app.
- Select which days of the week and hours the product must operate.
- 4. Select Save.

#### 3.12.1.2 To add a new schedule setting

- 1. Select Settings > Schedule > Edit in the app.
- 2. Select the plus sign in the app.
- Select which days of the week and hours the product must operate.
- 4. Select Save.

#### 3.12.1.3 To calculate the schedule setting

- Calculate the dimension of your lawn in m<sup>2</sup> / yd<sup>2</sup>.
- Divide the m<sup>2</sup> / yd<sup>2</sup> of the lawn with the approximate operation capacity. Refer to table below.
- The result is equal to the number of hours that the product must operate each day.

**Note:** The operation capacity is approximate and is calculated for flat and open work area. If the work area has a lot of slopes or obstacles, you need to increase the *Schedule* settings.

Model	Approximate operation capacity, m <sup>2</sup> / yd <sup>2</sup> / h
Automower® 535 AWD	146 / 175

Example: A lawn of 500 m<sup>2</sup> / 600 yd<sup>2</sup>, cut with an Automower<sup>®</sup> 535 AWD.

 $500 \text{ m}^2 / 146 \approx 3.5 \text{ h}.$ 

600 yd<sup>2</sup> / 175 ≈ 3.5 h.

Days / week	h / day	Schedule settings
7	3.5	10:00 - 13:30 / 10 am - 1.30 pm

## 3.12.2 Operation



In *Operation* you can change the operation settings of the product.

#### 3.12.2.1 Weather timer

Weather timer automatically adjust the cutting time to the growth of the grass. The product is not permitted to operate more than the schedule settings. **Note:** When using *Weather timer*, it is recommended to make as much operating time as possible available for *Weather timer*. Do not restrict the schedule more than necessary.

The first operation of the day is set by the schedule settings. The product always complete 1 mowing cycle, and then *Weather timer* selects if the product will continue to operate or not.

**Note:** Weather timer is reset if the product does not operate for more than 50 hours, or if a Reset of all user settings is done. Weather timer is not changed if a Reset of schedule settings is done.

#### To set the Weather timer

- 1. Select Settings > Operation in the app.
- Select on/off to enable or disable the Weather timer.

**Note:** If the cutting results are not satisfactory, the cutting time can be adjusted. Set the cutting time *High* to cut for a longer time or *Low* to cut for a shorter time.

Select Save.

#### 3.12.2.2 ECO mode

If *ECO mode* is activated, it switches off the signal in the boundary loop, the guide wire and the charging station, when the product is parked or is charging.

**Note:** Use *ECO mode* to save energy and avoid interference with other equipment, for example hearing loops or garage doors.

**Note:** To start the product manually in the work area, push the **STOP** button before you remove the product from the charging station. If not, the product can not be started in the work area.

#### To set the ECO mode

- Select Settings > Operation in the app.
- Select on/off to enable or disable the ECO mode function.
- Select Save.

#### 3.12.3 Installation



In *Installation* you can change the installation settings of the product.

#### 3.12.3.1 To find the charging station

The product can be set to search for the charging station in 3 methods:

- Charging station signal
- Follow boundary wire
- · Follow guide wire

The factory setting is set to use the 3 search methods at the same time. Use the factory setting to find the charging station as fast as possible and to keep the risk of tracks on the lawn to a minimum. The product always starts to search for the *Charging station signal*. After a specified time interval, it also uses *Follow guide* and *Follow boundary wire*.

Causes why the product cannot follow the wire:

- Obstacles near the wire have not been isolated.
- The charging station, the boundary wire or the guide wire are not installed according to the instructions in *To examine where to put the charging station on page 15, To examine where to put the boundary wire on page 16* and in *To examine where to put the guide wire on page 19.*

#### To change the signal range of the charging station

For some installations it is necessary to decrease the signal of the charging station. For example when the charging station is put near an obstacle such as a bush or wall and the signal reaches to the other side of the obstacle. The product knows that it is close to the charging station and tries to dock, but the objects prevents it. The options are *min*, *avg* (average) or *max*.

**Note:** The recommended setting is *max*. It is usually better to move the charging station, than to decrease the range of the charging station signal.

- Select Settings > Installation > Find charging station in the app.
- 2. Select signal range.
- Select Save.

# To set the delay time for the guide wire and the boundary wire

- Select Settings > Installation > Find charging station in the app.
- 2. Select *on/off* to enable or disable to follow the wire.
- 3. Move the horizontal bar to set the time delay.
- 4. Select Save.

#### 3.12.3.2 To do a test of the boundary wire

- 1. Select Installation > Find charging station > Test: Boundary wire setup.
- 2. Put the product 3 m / 9 ft. from the boundary wire, facing the boundary wire.
- 3. Push the START button.
- Make sure the product follows the boundary wire to the charging station.

- Make sure the product docks with the charging station
- Change the position of the charging station or the boundary wire if the product does not dock with the charging station. Refer to *To install the charging* station on page 20 and *To install the boundary* wire on page 21.

#### 3.12.3.3 To do a test of the guide wire

- 1. Select Installation > Find charging station > Test: Guide 1-3 setup.
- Put the product 3 m / 9 ft. from the guide wire, facing the guide wire.
- 3. Push the START button.
- Make sure the product follows the guide wire to the charging station.
- Make sure the product docks with the charging station
- Change the position of the charging station or the guide wire if the product does not dock with the charging station. Refer to To install the charging station on page 20 and To install the guide wire on page 21.

#### 3.12.3.4 Lawn coverage

The product has GPS Assisted Navigation that helps the product select the most optimal operation.

Use the *Lawn coverage* function to set the settings to manual.

#### To set the GPS function

- Select Installation > Settings > Lawn coverage in the app.
- Select on/off to disable or enable the GPS function.

**Note:** When GPS assisted navigation is enabled it is used while there is a GPS service. The GPS assisted navigation is used even if manual settings have been made. Only when GPS service is not available, the manual settings are used.

3. Select Save.

## To set the Lawn Coverage function

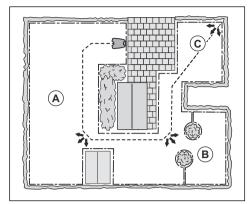
The Lawn Coverage function is used to guide the product to remote parts of the work area. If the work area includes remote parts that are connected with narrow passages, the Lawn Coverage function is useful to to keep a well-cut lawn in all parts of the yard. You can set a maximum of remote areas where the product starts to cut the lawn.

With the Lawn Coverage function the product first follows and then leaves the guide wire after a certain distance and starts to mow the lawn.

Area A, approximately 50%

Area B, approximately 30%

#### Area C. approximately 20%



Each area can be enabled or disabled, without having to enter the settings again.

- 1. Select Settings > Installation > Lawn coverage in the app.
- Select on/off to disable the GPS function to set the Lawn Coverage.
- 3. Select on/off Area 1-5 to activate the area.
- Move the horizontal bar to set which wire the product will follow. The product can follow Boundary wire left, Boundary wire right or one of the guide wires.
- Move the horizontal bar to set the distance the product must follow the wire. The product then leaves the wire and starts to cut the lawn. Refer to To measure the distance from the charging station on page 28.
- Move the horizontal bar to set how often the product goes to each area. At all other times, the products starts to cut near the charging station. The percentage is equal to the percentage of the area in relation to the complete work area.
  - a) Measure the area.
  - b) Divide the measured area with the total work
  - c) Convert the result to percentage.
  - Move the horizontal bar to set the distance from the charging station.

#### 7. Select Save.

The default settings lets the product follow the guide wire 300 m / 980 ft. in 20% of the times it leaves the charging station. If the guide wire is less than 300 m / 980 ft. the product will follow it to the point where the quide wire is connected to the boundary wire.

#### To measure the distance from the charging station

Put the product in the charging station.

- Select Settings > Installation > Lawn coverage in the app.
- Move the horizontal bar to set the distance to the charging station to maximum.
- 4. Select Test: Area 1-5 setup.
- 5. Follow the instructions in the app to start the test.
- Push the STOP button when the product is at the distance you select to measure. The distance shows in the app.

#### To do a test of the Lawn Coverage function

- 1. Put the product in the charging station.
- Select Settings > Installation > Lawn coverage in the app.
- 3. Select Test: Area 1-5 setup.
- 4. Follow the instructions in the app to start the test.
- The product will run to the starting point for this area.

#### 3.12.3.5 Drive Past Wire

The front of the product always moves past the boundary wire by a specified distance before the product moves back into the work area. The factory setting for the *Drive Past Wire function* function is 31 cm / in. You can select a distance of 20-50 cm / in.

**Note:** With the factory setting the product will cut 11 cm / in. past the wire.

**Note:** If the *Drive Past Wire* distance is changed, the distance will change along the boundary wire everywhere in the work area.

#### To set the Drive past wire

- Select Settings > Installation > Drive past wire in the app.
- Move the horizontal bar to set the distance.
- Select Save.

#### 3.12.3.6 Starting point

The *Starting point* function allows you to control how far the product drives forward from the charging station before it starts to operate. Use this function if the charging station is placed in an area with limited space.

**Note:** Starting point must not be set to a distance longer than the distance the guide wire is installed in a line in front of the charging station. Refer to *To examine where to put the guide wire on page 19.* 

#### To set the starting point

- Select Settings > Installation > Starting point in the app.
- 2. Move the horizontal bar to set the distance.

Select Save.

#### 3.12.4 Accessories



In *Accessories* you can change the settings of the product accessories.

#### 3.12.4.1 To avoid collisions with the Automower® house

When this option is enabled, the wear on the product and the Automower<sup>®</sup> house is reduced, but it can result in more uncut grass around the charging station.

- Select Settings > Installation > Mower house in the app.
- 2. Select on/off to enable or disable the function.
- 3. Select Save.

# 3.12.5 General (Bluetooth® only)



This function is used to set time and date, or to reset to default settings.

#### 3.12.5.1 Time & date

The time and date can be changed manually, or by using the time and date from the mobile device.

#### To set the time & date

- Select Settings > General > Time & Date in the app.
- Select *Time & Date from phone* or select the pencil to enter the correct time and date.
- 3 Select Save

#### 3.12.5.2 Reset to factory settings

The user settings can be reset to factory settings.

**Note:** PIN code, Loop signal, Messages and Date & Time will not be reset.

#### To reset to factory settings

- 1. Select Settings > General > Reset in the app.
- Select Reset to factory settings.

# 3.12.6 Security (Bluetooth® only)



The security settings controls the PIN code, the GeoFence and other security functions. The correct PIN-code must be entered to get access to the *Security* menu in the Automower® Connect app.

#### 3.12.6.1 New loop signal

The loop signal is randomly selected to create a unique link between the product and the charging station. In rare cases, there may be a need to generate a new signal, for instance if 2 adjacent installations have a very similar signal.

#### To create a New loop signal

- 1. Put the product in the charging station.
- Select Settings > Security > New loop signal in the app.
- 3. Select Create new loop signal.
- Select Save.
- Wait for confirmation that the loop signal has been generated. This usually takes about 10 seconds.

#### 3.12.6.2 To change the PIN code

- 1. Select Settings > Security > Change PIN code in the app.
- 2. Enter the PIN code.
- 3. Enter the new PIN code.
- 4 Enter the new PIN code to confirm
- Make a note of the new PIN code in Memo. Refer to *Introduction on page 3*.

#### 3.12.6.3 Theft protection

In the *Theft protection* menu it is possible to set the alarm duration and also what events should trigger the alarm. The factory setting is to require PIN code and the alarm duration is 1 min.

#### Alarm duration

There is a possibility to set how long the alarm signal should last. A setting between 1 and 10 minutes is possible.

#### STOP button pressed

If the alarm "STOP button pressed" is enabled, the alarm goes off if someone presses the **STOP** button and the PIN code is not entered within 30 seconds.

#### Carried away

If the alarm *Carried away* is enabled, the product senses unexpected motions, and the alarm goes off.

#### To set the Theft protection

- 1. Select Settings > Security > Theft protection in the app.
- Select the on/off button to enable or disable the STOP button pressed and Carried away.
- Move the horizontal bar to select the duration of the alarm.

#### 3.12.6.4 GeoFence

GeoFence is a GPS-based theft protection that makes a virtual fence for the product. If the product is more than a set distance away from the center position the product will be deactivated and an alarm will start. The PIN code is needed to deactivate the alarm and to start the product again.

# To set the center position and radius for the GeoFence function

- 1. Select Settings > Security > GeoFence in the app.
- 2. Put the product in a central position of the work
- Select the *on/off* button to enable or disable the GeoFence function. The center position will be set to the current position of the product.
- 4. Use the horizontal bar to set the radius.

# 3.12.7 Automower® Connect (Bluetooth® only)



In *Automower® Connect* you can enable or disable the Automower® Connect module. You can also see the signal strength, connectivity status, initiate new pairing or remove the product from the paired accounts.

#### 3.12.8 Messages

In this menu the previous fault and information messages can be found. For some of the messages, there are tips and advice to help to rectify the fault.

If the product is disrupted in any way, for example it is trapped or the battery is low, a message is saved relating to the disruption and the time it happened.

If the same message is repeated several times, this may indicate that an adjustment to the installation or the product is required. Refer to *Installation on page 15*.

# 3.12.9 Husqvarna Fleet Services™

Husqvarna Fleet Services<sup>™</sup> is a cloud solution that gives the commercial fleet manager an overview of all products. Husqvarna Fleet Services<sup>™</sup> is included for the Autonower<sup>®</sup> 535 AWD. For more information about Husqvarna Fleet Services<sup>™</sup>, refer to www.husqvarna.com.

#### 3.12.9.1 To connect to the product with

- Download the app and Automower<sup>®</sup> Connect app to your mobile device.
- 2. Log on to the app.
- Follow the instructions about how to pair the product with .

# 4 Operation

# 4.1 To switch on the product



**WARNING:** Read and understand the safety chapter before you switch on the product.

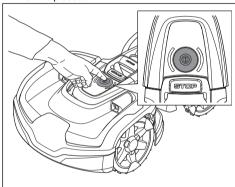


**WARNING:** Keep your hands and feet away from the rotating blades. Do not put your hands or feet near or below the product when the cutting motor is running.



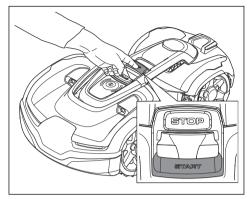
WARNING: Do not use the product when persons, especially children, or animals are in the work area

 Push the **ON/OFF** button for 3 seconds to switch on the product.



**Note:** Make sure that the **STOP** button is pushed down.

- Use the Automower<sup>®</sup> Connect app to enter the PIN code. The correct PIN code must be entered to get access to the menu. If the incorrect PIN code is entered 5 times, the product is locked for a time.
   The lock is extended for each new incorrect try.
- Select the desired operating mode in the Automower<sup>®</sup> Connect app. Refer to Operating modes on page 31.
- 4. Push the **START** button to start the product.



If the product is parked in the charging station, it will only leave the charging station when the battery is fully charged and if the *Schedule* is set to let the product operate.

# 4.2 Operating modes

In the Automower® Connect menu the following operation modes can be selected:

- Main area
- Secondary area
- Park

#### 4.2.1 Main area

*Main area* is the standard operating mode where the product mows and charges automatically.

#### 4.2.2 Secondary area

To mow secondary areas the operating mode Secondary area must be selected. In this mode, the operator must move the product manually between the main area and the secondary area. The product mows for a selected period of time or until the battery is empty.

#### 4.2.3 Park

When the *Park* mode is selected the following operation selections can be chosen:

- Park until further notice
- · Park for a specific number of hours

#### 4.2.3.1 Park until further notice

The product goes to the charging station where it stays until you select a different operating mode.

#### 4.2.3.2 Park for a selected number of hours

The product goes to the charging station where it stays for a selected number of hours, then it automatically goes to the usual operation that is set in the *Schedule* settings. This operation selection is applicable when it is

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necessary to pause operation, for example for temporary irrigation or work on the lawn.

## 4.2.4 The charging station's park button

The **PARK** button on the charging station is used to call the product back to the charging station. *Park* in the Automower® Connect app offers the same function. The **PARK** button on the charging station is useful for instance when the product operates in a large work area and the operator does not have access to the Automower® Connect app.

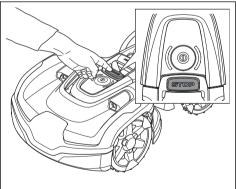
An LED in the **PARK** button is lit when the button has been pressed. The LED diode goes out when the product is parked in the charging station.

The product stays in the charging station until *Start* in the Automower® Connect app is activated.



# 4.3 To stop the product

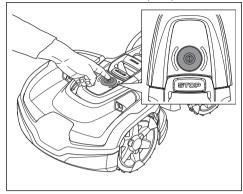
Push the STOP button on top of the product.



The product stops and the cutting motor stops.

# 4.4 To switch off the product

1. Push the **STOP** button to stop the product.



- Push the **ON/OFF** button for 3 seconds to switch off the product.
- 3. Make sure that the LED status indicator is not lit.

**Note:** If the LED status indicator is lit or is flashing in any color the product is not switched off. Refer to *LED status indicator on page 10.* 

**Note:** The product cannot be switched off when it stands in the charging station.



WARNING: The product must be switched off before any maintenance is done, or if the product must be moved from the work area.

# 4.5 To charge the battery

When the product is new or has been in storage for a long period, the battery can be empty, charge the battery before you start the product. In the *Main area* mode, the product automatically changes between mowing and charging.



WARNING: Only charge the product with a charging station and a power supply which the product is intended for. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery.

In the event of leakage of electrolyte, flush with water and seek medical help if it comes in contact with the eyes and etc.

Put the product in the charging station.

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2. Put the product in as far as possible and make sure it is connected to the charging station.

The battery status can be monitored on the status bar of the display.

**Note:** If the battery is empty the product needs to charge for a longer time period before the product is possible to start.

# 4.6 To adjust the cutting height with Automower® Connect

The cutting height can be varied from MIN (3 cm / 1.2 in.) to MAX (7 cm / 2.8 in.).

**Note:** During the first weeks after a new installation, the cutting height must be set to MAX to avoid damaging the loop wire. After this, the cutting height can be lowered step by step every week until the desired cutting height has been reached.

- 1. Select Settings > Cutting height.
- 2. Move the horizontal bar to set the cutting height.
- Select Save.

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## 5 Maintenance

#### 5.1 Introduction - maintenance



WARNING: The product must be switched off before any maintenance is done. The product is disabled when the LED status indicator is not lit.



WARNING: Wear protective gloves.

For better operation and longer service life, make sure to clean the product regularly and replace worn parts. All maintenance and servicing must be done according to Husqvarna's instructions. Refer to *Warranty on page 56*.

When the product is first used, the blade disc and blades should be inspected once a week. If the amount of wear during this period has been low, the inspection interval can be increased.

It is important that the blade disc rotates easily. The edges of the blades should not be damaged. The lifetime of the blades varies immensely and depends for instance on:

- · Operating time and size of the work area.
- Type of grass and seasonal growth.
- · Soil, sand and use of fertilizers.
- The presence of objects such as cones, windfalls, toys, tools, stones, roots and the like.

The normal life is 3 to 6 weeks when used under favorable conditions. Refer to *Replace the blades on page 35* on how to replace the blades.

**Note:** Working with blunt blades gives a poorer mowing result. The grass is not cut cleanly and more energy is needed resulting in the product not mowing such a large area.

# 5.2 Clean the product



**CAUTION:** Never use a high-pressure washer to clean the product. Never use solvents for cleaning.

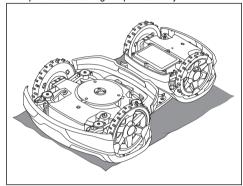
The product does not operate satisfactorily in slopes if the wheels are blocked with grass. Use a soft brush to clean the product.

Husqvarna recommends to use a special cleaning and maintenance kit, available as accessory. Speak to your Husqvarna representative for more information.

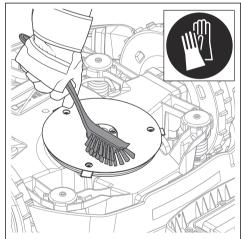
#### 5.2.1 To clean the blade disc

Examine the blade disc and blades weekly.

- Switch off the product. Refer to To switch off the product on page 32.
- Turn the product upside down or put it on its side. Put the product on a soft and clean surface to prevent scratching the product body.



Clean the blade disc with a brush.



- Make sure that the blade disc can rotate freely.
- Make sure that the blades are not damaged and can pivot freely.

#### 5.2.2 Chassis

Clean the underside of the chassis. Brush or wipe with a damp cloth.

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#### 5.2.3 Wheels

Clean around the wheels. Grass on the wheels can impact on how the product performs in slopes.

#### 5.2.4 The body of the product

Use a moist, soft sponge or cloth to clean the body of the product. If the body of the product is dirty, use a mild soap solution to clean it.

#### 5.2.5 Charging station



**WARNING:** Disconnect the power supply from the power outlet before any maintenance, or cleaning of charging station or power supply.

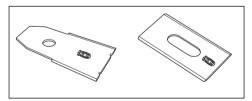
Clean the charging station regularly from grass, leaves, twigs and other objects that may impede docking.

# 5.3 Replace the blades



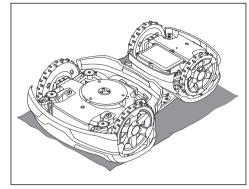
WARNING: Use blades and screws of the right type. Husqvarna can only guarantee safety when using original blades. Only replacing the blades and reusing the screw can result in a screw wearing during mowing. The blades can then be propelled from under the body and cause serious injury.

Replace worn or damaged parts for safety reasons. Even if the blades are intact, they should be replaced on a regular basis for the best mowing result and low energy usage. All 3 blades and screws must be replaced at the same time to obtain a balanced cutting system. Use Husqvarna original blades embossed with the crowned H-mark logotype, refer to *Warranty terms on page 56*.

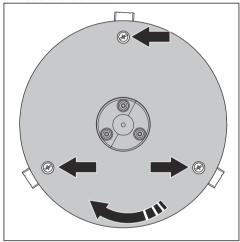


## 5.3.1 To replace the blades

- 1. Switch off the product. Refer to *To switch off the product on page 32.*
- 2. Put on protective gloves.
- Turn the product upside down. Place the product on a soft and clean surface to avoid scratching the body.

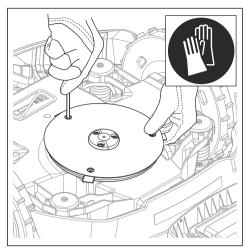


 Rotate the skid plate so that its holes align with the screws for the blade.



Remove the 3 screws. Use a manual straight slot or cross-tip screwdriver.

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- Remove each blade and screw.
- 7. Fasten new blades and screws.
- 8. Check that the blades can pivot freely.

# 5.4 To replace the top covers

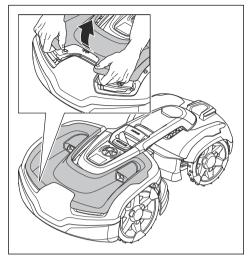
The top cover is an accessory available in different colors. Speak to your local Husqvarna representative for more information.



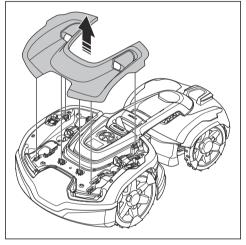
**CAUTION:** Clean grass and dirt from the product before you remove the covers.

## 5.4.1 To remove the front top cover

- 1. Switch off the product. Refer to *To switch off the product on page 32*.
- Remove the front top cover from the snap-on clips on the product.



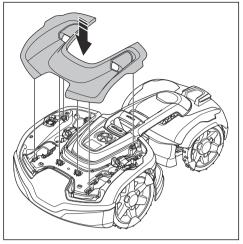
3. Lift the front top cover.



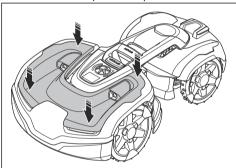
# 5.4.2 To install the front top cover

1. Put the front top cover on the snap-on clips.

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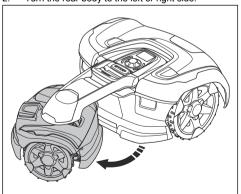


2. Push the front top cover into position.

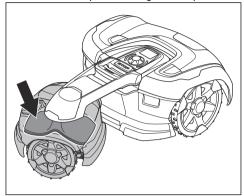


#### 5.4.3 To remove the rear top cover

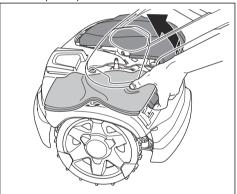
- 1. Switch off the product. Refer to *To switch off the product on page 32.*
- 2. Turn the rear body to the left or right side.



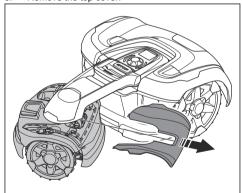
Put a protection between the cover and the link arm. This is to prevent damage to the top cover.



4. Pull up the top cover.



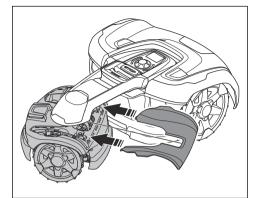
5. Remove the top cover.



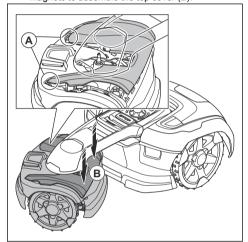
## 5.4.4 To install the rear top cover

1. Put the top cover on the rear body.

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Put the top cover in position (A) and push the 2 magnets to assemble the top cover (B).



### 5.5 Battery



WARNING: Only charge the product using a charging station and power supply which is intended for it. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery. In the event of leakage of electrolyte flush with water and seek medical help if it comes in contact with the eyes etc.



WARNING: Use only original batteries recommended by the manufacturer. Product safety cannot be guaranteed with other batteries. Do not use non-rechargeable batteries.



**CAUTION:** The battery must be charged before winter storage. If the battery is not fully charged it can be damaged and in certain cases be rendered useless.

The charging time can vary depending on, among other factors, the ambient temperature.

Below indicates that the battery is getting old and eventually needs replacing:

- The operating time for the product is shorter than normal between charges. This leads to more charging cycles than normal, which increases the risk of tracks forming near the charging station.
- The product is frequently found standing out on the lawn with *Empty battery* message. This indicates that the product does not have battery capacity enough to find the charging station.

The battery is fine as long as the product maintains a well-cut lawn.

**Note:** Battery life is dependent on the length of the season and how many hours a day the product is operating. A long season or many hours of use a day means that the battery must be replaced more regularly.

Contact your local Husqvarna representative to replace the battery.

#### 5.6 Winter service

Take your product to your Husqvarna central service for service prior to winter storage. Regular winter service will maintain the product in good condition and create the best conditions for a new season without any disruptions.

Service usually includes the following:

- Thorough cleaning of the body, the chassis, the blade disc and all other moving parts.
- · Testing of the product's function and components.
- Checking and, if required, replacing wear items such as blades and bearings.
- Testing the product's battery capacity as well as a recommendation to replace battery if necessary.
- If new firmware is available, the product is updated.

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# 6 Troubleshooting

#### 6.1 Introduction - troubleshooting

In this chapter, a number of messages are listed which may be shown in Automower<sup>®</sup> Connect if there is a malfunction. There is a proposal as to the cause and steps to take for each message. This chapter also presents some symptoms that can guide you if the product does not work as expected. More suggestions for steps to take in the event of malfunction or symptoms can be found on www.husqvarna.com.

#### 6.2 Fault messages

The table below shows a number of fault messages that may be shown in Automower<sup>®</sup> Connect. Some of the errors can be confirmed in the Automower<sup>®</sup> Connect and some the message needs to be confirmed on the product. Contact your local Husqvarna representative if the same message appears often. For more information, refer to *Messages on page 30*.

Message	Cause	Action
Trapped	The product is stuck in a small area behind a number of obstacles.	Examine if there are any obstacles which make it hard for the product to move away from this location.
Wheel motor blocked	Grass or other object has wrapped around the drive wheel.	Examine the drive wheel and remove the grass or other object.
Wheel drive problem		
Cutting system blocked	Grass or other object has wrapped around the blade disc.	Examine the blade disc and remove the grass or other object.
	The blade disc lies in a pool of water.	Move the product and prevent the collection of water in the work area.

Message	Cause	Action
Wrong PIN code	Wrong PIN code has been entered. Five attempts are permitted, and the product is then blocked for a period of time.	Enter the correct PIN code. If the PIN code is incorrect, use the link in the app to send the PIN code to your registered e-mail address. If you have not registered the e-mail address, contact your local Husqvarna representative.
Empty battery	The product cannot find the charging station.	Change the position of the guide wire. Refer to <i>To install the guide wire on page 21</i> .
		Check the installation settings about how to find the charging station. Refer to <i>To find the charging station on page 27.</i>
	The battery is spent.	Replace the battery. Refer to Battery on page 38.
	The charging station's antenna is defective.	Check if the indicator lamp in the charging station flashes red. Refer to <i>Indicator lamp in the charging station on page 46</i> .
No drive	The product is caught in something and has been slipping.	Free the product and rectify the reason for the lack of drive. If it is due to wet grass, wait until the lawn has dried before using the product.
	The work area includes a steep slope.	Maximum guaranteed slope is 70%. Steeper slopes should be isolated. Refer to <i>To put the boundary wire in a slope on page 17.</i>
	The guide wire is not installed correctly in a slope.	Make sure that the guide wire is installed diagonally across the slope. Refer to <i>To install the guide wire on page 21</i> .
Wheel motor overloa- ded	The product is caught in something.	Free the product and rectify the reason for the lack of drive. If it is due to wet grass, wait until the lawn has dried before using the product.
Charging station blocked	The contact between the charging strips and contact strips may be poor and the product has made a number of attempts to charge.	Put the product in the charging station and check that the charging strips and contact strips make good contact. Clean the contact and charging plates.
	An object causes a blockage and the product cannot enter the charging station.	Remove the object.
	The baseplate is tilted or bent.	Make sure that the baseplate is put on level ground.
Stuck in charging station	The product slips on the baseplate.	Clean the baseplate.
	There is an object in the way of the product preventing it from leaving the charging station.	Remove the object.
Upside down	The product is leaning too much or has turned over.	Turn the product the right way up.
Mower tilted	The product is tilted more than the maximum angle.	Move the product to a flat area.

Message	Cause	Action
Lifted	A blockage has activated the lift senors and caused the product to stop.	Remove the product from the blockage. If the problem remains it requires action by authorized service technician.
Collision sensor problem	The product body can not move freely around its chassis.	Make sure that the product body can move freely around its chassis.
		If the problem remains, the message requires action by authorized service technician.
Slope too steep	Mower stopped because the slope is too steep.	Change the installation of the boundary wire to exclude this steep part of the work area. Refer to <i>To examine where to put the boundary wire on page 16.</i>
Alarm! Mower switch- ed off	The alarm was activated because the product was switched OFF.	Adjust the security level in the Security menu, refer to Security (Bluetooth® only) on
Alarm! Mower stop- ped	The alarm was activated because the product was stopped.	† page 29.
Alarm! Mower was moved	The alarm was activated because the product was moved.	
Alarm! Outside geo- fence	The alarm was activated because the mower was outside its GeoFence.	Adjust the theft protection area (GeoFence) in the <i>Automower Connect menu</i> .
Electronic problem	Temporary electronic or firmware related is-	Restart the product.
Loop sensor problem	sue.	If the problem remains, the message re-
Charging system problem		quires action by authorized service technician.
Tilt sensor problem		
Temporary problem		
STOP button prob- lem		
Ultrasonic problem		
GPS navigation prob- lem		
Angular sensor prob- lem		
Switch cord problem		
Invalid sub-device combination		
Invalid system configuration		
Temporary battery problem	Temporary battery or firmware related issue.	Restart the product.  If the problem remains, the message re-
Battery problem		quires action by authorized service technician.

Message	Cause	Action
Battery temperature outside limits	The product does not operate if the battery temperature is too high or too low.	The product starts to operate again when the temperature is between the set limits and the schedule settings let the product to operate. Make sure that the charging station is put in an area with protection from the sun.
Faulty mix of batter- ies	The battery type is incorrect.	Only use original batteries that are recommended by the manufacturer.
Charging system problem	Temporary battery or software related issue in the product.	Restart the product.  If the problem remains, the message requires action by authorized service technician.
	The battery type is incorrect.	Only use original batteries that are recommended by the manufacturer.
Charging current too	Wrong or faulty power supply unit.	Restart the product.
high		If the problem remains, the message requires action by authorized service technician.
Connectivity problem	1	Restart the product.
	ule.	If the problem remains, the message requires action by authorized service technician.
Connectivity settings restored	The connectivity settings for the Automower® Connect module was restored because of a fault.	Do a check of the settings and change the settings if needed.
Outside work area	The boundary wire connections to the charging station are crossed.	Make sure that the boundary wire is connected correctly. Refer to <i>To examine where to put the boundary wire on page 16.</i>
	The boundary wire is too close to the edge of the work area.	Make sure that the boundary wire has been laid according to the instructions. Refer to <i>To</i>
	The work area slopes too much by the boundary loop.	install the boundary wire on page 21.
	The boundary wire is laid in the wrong direction around an island.	
	Disturbances from metal objects (fences, reinforcement steel) or buried cables close by.	Move the boundary wire and/or make more islands in the work area to increase the signal strength.
	The product finds it hard to distinguish the signal from another product installation close by.	Put the product in the charging station and generate a new loop signal. Refer to <i>To create a New loop signal on page 29.</i>

Message	Cause	Action
Limited cutting height	The cutting height adjustment cannot move.	Examine the cutting height adjustment and remove grass and other unwanted material. If the problem remains, the message requires action by authorized service technician.
Unexpected cutting height		
Cutting height prob- lem, drive		
Cutting height blocked		
Cutting height prob- lem		
No power in charging station	Wrong or faulty power supply unit.	Examine the power supply. If it is necessary, replace the power supply.
	Power failure.	Find and rectify the cause of the power failure.
	No contact between the contact plates and the charging plates.	Make sure that the charging plates and the contact plates are connected.
Cutting system imbal- ance	Too few or too many blades.	Examine the blades on the blade disc.
Weak GPS signal		If possible, remove obstructing objects.
	work area.	Disable the GPS navigation function and use the lawn coverage function instead. Refer to Lawn coverage on page 27.
Collision sensor problem, front/rear	A blockage has caused the product to stop.	Remove the product from the blockage and examine the cause of the stop.
	The body of the product cannot move freely around the chassis.	Remove dirt and unwanted material between the chassis and the body to make sure that the body of the product can move freely around the chassis.
	The body of the product is not installed correctly in the rubber dampers.	Make sure that the rubber dampers are attached correctly in the body of the product and in the chassis.

Message	Cause	Action
No loop signal	The power supply or the voltage cable are not connected.	Examine the LED status on the charging station. If the LED is not lit, it indicates that there is no power. Examine the power outlet connection and whether an earth-fault breaker has tripped. Make sure that the low voltage cable is connected to the charging station.
	The power supply or low voltage cable are damaged.	Replace the power supply or low voltage cable.
	The boundary wire is not connected to the charging station.	Make sure that the boundary wire connectors are fitted properly to the charging station. Replace connectors if damaged. Refer to <i>To install the charging station on page 20</i> .
	The boundary wire is broken.	Check the signal given by the LED on the charging station. If the LED indicates break in the boundary wire, find out where the break is. Replace the damaged section of the loop with a new loop wire and splice using an original coupler. Refer to <i>Find breaks in the loop wire on page 48</i> .
	ECO mode is activated and the product has attempted to start outside the charging station.	Put the product in the charging station. Start the product.
	The pairing between the product and the charging station is lost.	Put the product in the charging station and generate a new loop signal. Refer to <i>To create a New loop signal on page 29.</i>
	The boundary wire is crossed on its way to and from an island.	Make sure that the boundary wire is installed correctly. Refer to <i>To install the boundary wire on page 21.</i>
	Disturbances from metal objects (fences, reinforcement steel) or buried cables.	Move the boundary wire and/or make more islands in the work area to increase the signal strength.
	The product is too far from the boundary wire.	Redo the installation of the boundary wire so that all parts of the work area is maximum 35 m / 115 ft. from the boundary wire.

# 6.3 Information messages

The table below shows a number of information messages that may be shown in Automower<sup>®</sup> Connect. Contact your local Husqvarna representative if the same message appears often. For more information, refer to *Messages on page 30* 

Message	Cause	Action
Low battery	The product cannot find the charging station.	Change the position of the guide wire. Refer to <i>To install the guide wire on page 21</i> .
		Make sure that the charging station is installed correctly. Refer to <i>To find the charging station on page 27.</i>
	The battery is spent.	Replace the battery. Refer to Battery on page 38.
	The charging station's antenna is defective.	Check if the indicator lamp in the charging station flashes red. Refer to <i>Indicator lamp in the charging station on page 46</i> . This problem requires action by authorized service technician.
Settings restored	Confirmation that <i>Reset all user settings</i> has been carried out.	This is normal. No action required.
Guide 1/2/3 not found	The guide wire is not connected to the charging station.	Check that the guide wire's connector is tightly connected to the charging station. Refer to <i>To install the guide wire on page 21</i> .
	Break in the guide wire.	Find out where the break is. Replace the damaged section of the guide wire with a new loop wire and splice using an original coupler.
	The guide wire is not connected to the boundary loop.	Check that the guide wire is connected correctly to the boundary loop. Refer to <i>To install the guide wire on page 21</i> .
Connection changed	New loop signal successfully changed.	No action.
Connection NOT changed	Failed to change the loop signal.	Create a new loop signal, try several times. If the problem remains, the message requires action by authorized service technician. Re- fer to <i>To create a New loop signal on page</i> 29.
Slope too steep	The product stopped mowing because the slope is too steep.	If this problem occurs frequently, change the installation of the boundary wire to exclude the steep part of the work area.
Poor signal quality	The Automower® Connect module in the product is assembled upside down, or the product is tilted or upside down.	Make sure that the product is not upside down or tilted. Speak to your authorized service technician if the problem stays.
ComBoard SW must be updated	The firmware in the Automower® Connect module needs to be updated.	Speak to your authorized service technician to get the firmware updated.

Message	Cause	Action
Geofence problem	The Geofence is not working because of unsatisfactory or no communication with the GPS system.	Put the product in an area with open sky and wait around 15 minutes. Speak to your authorized service technician if the problem stays.
	The GPS signal is weak for the current work area. GPS assisted navigation cannot be used.	If the message shows frequently, disable the GPS assisted navigation and use the manual settings for <i>Lawn coverage</i> .

## 6.4 Indicator lamp in the charging station

For a fully functional installation, the indicator lamp in the charging station must emit a solid or flashing green light. If something else appears, follow the troubleshooting guide below.

There is more help on www.husqvarna.com. If you still need help, please contact your local Husqvarna representative.

Light	Cause	Action
Green solid light	Good signals.	No action required.
Green flashing light	The signals are good and <i>ECO mode</i> is activated.	No action required.
Blue flashing light	The boundary loop is not connected to the charging station.	Check that the boundary wire connectors are fitted properly to the charging station.
	Break in the boundary loop.	Find out where the break is. Replace the damaged section of the loop with a new loop wire, and splice using an original coupler.
Red flashing light	Interruption in the charging station's antenna.	Contact your local Husqvarna representative.
Red solid light	Fault in the circuit board or incorrect power supply in the charging station. The fault should be rectified by an authorized service technician.	Contact your local Husqvarna representative.

# 6.5 Symptoms

If your product does not work as expected, follow the symptoms guide below.

There is a FAQ (Frequently Asked Questions) on www.husqvarna.com which provides more detailed answers to a number of standard questions. Contact your local Husqvarna representative if you still cannot find the reason for the fault

Symptoms	Cause	Action
The product has difficulty docking.	The boundary wire is not laid in a long straight line that is far enough out from the charging station.	Check that the charging station has been installed according to the instructions. Refer to To install the charging station on page 20
	The charging station is on a slope.	Place the charging station on a surface that is entirely level. Refer to <i>To examine where to put the charging station on page 15.</i>
The product runs at the wrong time.	The clock needs to be set.	Set the clock. Refer to <i>Time &amp; date on page 29</i> .
	The start and stop times for mowing are incorrect.	Reset the start time and change the <i>Schedule</i> settings. Refer to <i>Schedule on page 25</i> .
The product vibrates.	Damaged blades lead to imbalance in the cutting system.	Inspect the blades and screws and replace them if necessary. Refer to <i>Replace the blades on page 35</i> .
	Too many blades in the same position lead to imbalance in the cutting system.	Check that only one blade is fitted at each screw.
	Different versions (thickness) of Husqvarna blades are used.	Check if the blades are of different versions.
The product runs, but the blade disc does not rotate.	The product searches for the charging station.	No action. The blade disc does not rotate when the product is searching for the charging station.
The product mows for shorter periods	Grass or other foreign object blocks the blade disc.	Remove and clean the blade disc. Refer to Replace the blades on page 35.
than usual between charges.	The battery is spent.	Replace the battery. Refer to Battery on page 38.
Both the mowing and charging times are shorter than usual.	The battery is spent.	Replace the battery. Refer to <i>Battery on page 38</i> .
The product is parked for hours in the charging station.	The <b>STOP</b> button has been activated.	Make sure that the <b>START</b> button is pushed down.
	Parking mode is activated.	Select the operating mode in Automower® Connect.
	The product is not allowed to operate if the battery temperature is too high or too low.	Check that the charging station is placed in an area with protection from the sun.

Symptoms	Cause	Action
Uneven mowing results.	The product works too few hours per day.	Increase the mowing time. Refer to Schedule on page 25.
	The settings for <i>Lawn coverage</i> function are incorrect in relation to the layout of the work area.	Examine the settings for the <i>Lawn coverage</i> function. Refer to Lawn coverage.
	The shape of the work area requires the use of <i>Area 1-5</i> for the product to find its way to all remote areas.	Use Area 1-5 to steer the product to a remote area. Refer to To set the Lawn Coverage function on page 27.
	The work area is too large.	Try to limit the work area or extend the work time. Refer to <i>Schedule on page 25</i> .
	Blunt blades.	Replace all the blades. Refer to Replace the blades on page 35.
	Long grass in relation to the set cutting height.	Increase the cutting height and then successively lower it.
	Accumulation of grass by the blade disc or around the motor shaft.	Check that the blade disc rotates freely and easily. If not, screw off the blade disc and remove grass and foreign objects. Refer to <i>To clean the blade disc on page 34</i> .

## 6.6 Find breaks in the loop wire

Breaks in the loop wire are usually the result of unintentional physical damage to the wire such as when gardening with a shovel. In countries with ground frost, also sharp stones that move in the ground can damage the wire. Breaks can also occur due to the wire being stretched excessively during installation.

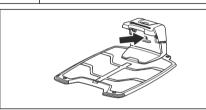
Mowing the grass too low right after the installation can damage wire insulation. Damage to the insulation may not cause disruptions until several weeks or months later. To avoid this, always select the maximum cutting height the first weeks after installation and then lower the height one step at a time every second week until the desired cutting height has been reached.

A defective splicing of the loop wire can also lead to disruptions several weeks after the splice was done. A faulty splice can, for example, be the result of the coupler not being pressed together hard enough with a pair of pliers, or that a coupler of lower quality than the original coupler has been used. Please first check all known splices before further troubleshooting is done.

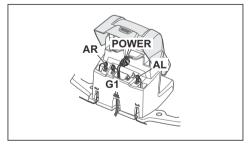
A wire break can be located by gradually halving the distance of the loop where the break may have occurred until there is only a very short section of the wire left.

The following method does not work if *ECO mode* is activated. Make sure first that *ECO mode* is turned off. Refer to *ECO mode on page 26*.

 Check that the indicator lamp in the charging station flashes blue, which indicates a break in the boundary loop. Refer to *Indicator lamp in the* charging station on page 46.



Check that the boundary wire connections to the charging station are properly connected and not damaged. Check that the indicator lamp in the charging station is still flashing blue.

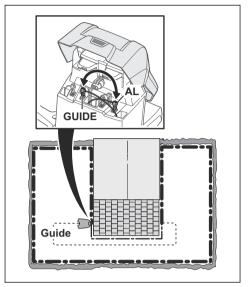


 Switch the connections between the guide wire and the boundary wire in the charging station.

Start by switching connection AL and G1. Some models have additional guide wires (G2, G3). The same procedure can be followed for them.

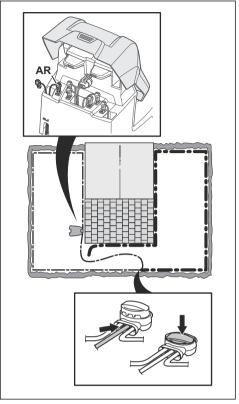
If the indicator lamp is lit with a solid green light, then the break is somewhere on the boundary wire

between AL and the point where the guide wire is connected to the boundary wire (thick black line in the illustration).

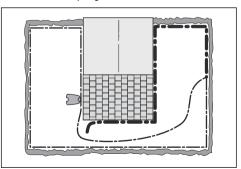


To rectify the fault you will need boundary wire, connector(s) and coupler(s):

- a) If the suspected boundary wire is short then it is easiest to exchange all of the boundary wire between AL and the point where the guide wire is connected to the boundary wire (thick black line).
- b) If the suspected boundary wire is long (thick black line) then do as follows: Put AL and G1 back to their original positions. Then disconnect AR. Connect a new loop wire to AR. Connect the other end of this new loop wire at the middle of the suspected wire section.



If the indicator lamp now is green, then the break is somewhere in the wire between the disconnected end to the point where the new wire is connected (thick black line below). In that case, move the connection for the new wire closer to the disconnected end (roughly at the middle of the suspected wire section) and check again if the indicator lamp is green.



Continue until only a very short section of the wire remains which is the difference between a solid green light and a flashing blue light. Then follow instruction in step 5 below.

- 4. If indicator lamp still flashes blue in step 3 above: Put AL and G1 back in their original positions. Then switch AR and G1. If indicator lamp now is lit with a solid green light then disconnect AL and connect a new boundary wire to AL. Connect the other end of this new wire at the middle of the suspected wire section. Follow the same approach as in 3a) and 3b) above.
- When the break is found, the damaged section must be replaced with a new wire. Always use original couplers.



# 7 Transportation, storage and disposal

#### 7.1 Transportation

The supplied Li-ion batteries obey the Dangerous Goods Legislation requirements.

- · Obey all applicable national regulations.
- Obey the special requirement on package and labels for commercial transportations, including by third parties and forwarding agents.

#### 7.2 Storage

- Fully charge the product. Refer to To charge the battery on page 32.
- Switch off the product. Refer to To switch off the product on page 32.
- Clean the product. Refer to Clean the product on page 34.
- · Keep the product in a dry, frost free space.
- Keep the product with all wheels on level ground during storage.
- If you keep the charging station indoors, disconnect and remove the power supply and all the connectors from the charging station. Put the end of each connector wire in a connector protection box.

**Note:** If you keep the charging station outdoors, do not disconnect the power supply and the connectors.

 Speak to your Husqvarna service for information about available storage accessories for your product.

## 7.3 Disposal

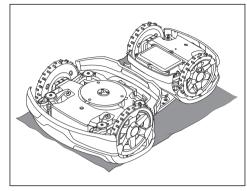
- Obey the local recycling requirements and applicable regulations.
- For questions about how to remove the battery, refer to To remove the battery on page 51.

#### 7.3.1 To remove the battery

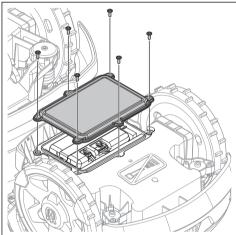


**CAUTION:** Only remove the battery when you dispose the product.

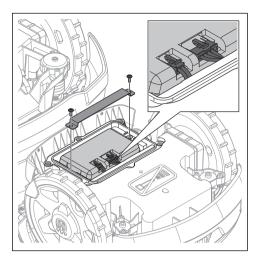
- Switch off the product. Refer to To switch off the product on page 32.
- 2. Turn the product upside down.



Remove the 6 screws and remove the battery cover.



4. Remove the two screws and remove the bracket.



 Disconnect the two cables from the battery and remove the battery.

# 8 Technical data

## 8.1 Technical data

Dimensions	Automower® 535 AWD
Length, cm / in.	93 / 36.6
Width, cm / in.	55 / 21.6
Height, cm / in.	29 / 11.4
Weight, kg / lbs	17.3 / 38.1

Electrical system	Automower® 535 AWD	
Battery, Lithium-Ion 18.0 V/5.0 Ah Art. No.	590 81 01-01	
Battery, Lithium-Ion 18.0 V/5.4 Ah Art. No	590 81 01-03, 590 81 01-04	
Battery, Lithium-Ion 18.0 V/4.9 Ah Art. No.	590 81 01-02	
Battery, Lithium-Ion 18.5 V/5.0 Ah Art. No.	590 81 01-05	
Power supply (28 V DC), V AC	100-240	
Low-voltage cable length, m / ft	10 / 33	
Mean energy consumption at maximum use	24 kWh/month in a 3500 m <sup>2</sup>	
Charge current, A DC	7	
Type of Power Supply Unit <sup>5</sup>	FW7458/28/D/XX/Y, ADP-200JR XX, ADP-200MR XX	
Typical mowing time, min	100	
Typical charging time, min	30	

Boundary wire antenna	Automower® 535 AWD	
Operating Frequency Band, Hz	100-80000	
Maximum magnetic field, dBuA/m <sup>6</sup>	etic field, dBuA/m <sup>6</sup> 82	
Maximum Radio-frequency power <sup>7</sup> , mW @60m	<25	

Sound data <sup>8</sup>	Automower® 535 AWD
Measured sound power noise level, dB (A)	60
Guaranteed sound power noise level, dB (A)	62
Noise emissions uncertainties KWA, dB (A)	2
Sound pressure noise level at the operator's ear <sup>9</sup> , dB (A)	49

<sup>&</sup>lt;sup>5</sup> XX, YY can be any alphanumeric characters or blank for marketing purpose only, no technical differences.

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<sup>&</sup>lt;sup>6</sup> Measured according to EN 303 447.

<sup>&</sup>lt;sup>7</sup> Maximum active output power to antennas in the frequency band in which the radio equipment operates.

<sup>8</sup> Determined according to Directive 2006/42/EC and standard EN 50636-2-107.

<sup>9</sup> Sound pressure noise uncertainties K<sub>pA</sub>, 2-4 dB (A)

Mowing	Automower® 535 AWD	
Cutting system	3 pivoted cutting blades	
Maximum cutting motor speed, rpm	2475	
Power consumption during cutting, W +/- 20 %	40	
Cutting height, cm / in.	3-7 / 1.2-2.8	
Cutting width, cm / in.	22 / 8.7	
Narrowest possible passage, cm / in.	60 / 24	
Maximum slope for work area, %	70	
Maximum slope for boundary wire, %	50	
Maximum length boundary wire, m / ft	800 / 2600	
Maximum length guide loop <sup>10</sup> , m / ft	400 / 1300	
Working capacity, m <sup>2</sup> / acre, +/- 20%	3500 / 0.9	

IP-classification	Automower® 535 AWD	
Robotic lawnmower	IPX4	
Charging station	IPX1	
Power supply	IP44	

Frequency Band Support	
Bluetooth® Frequency range	2400.0-2483.5 MHz
Automower® Connect 2G	GSM 850 MHz, E-GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz
Automower® Connect 3G	Band 19 (800 MHz), Band 5 (850 MHz), Band 8 (900 MHz), Band 2 (1900 MHz), Band 1 (2100 MHz)
Automower® Connect 4G	Band 12 (700 MHz), Band 17 (700 MHz), Band 28 (700 MHz), Band 13 (700 MHz), Band 20 (800 MHz), Band 26 (850 MHz), Band 5 (850 MHz), Band 19 (850 MHz), Band 8 (900 MHz), Band 4 (1700 MHz), Band 3 (1800 MHz), Band 2 (1900 MHz), Band 1 (2100 MHz), Band 39 (1900 MHz)

Power Class			
Bluetooth® Output power	8 dBM	8 dBM	
Automower® Connect 2G	er® Connect 2G Power Class 4 (GSM/E-GSM)		
	Power Class 1 (DCS/PCS)	30 dBm	
	Power Class E2 (GSM/E-GSM)	27 dBm	
	Power Class E2 (DCS/PCS)	26 dBm	
Automower® Connect 3G	Power Class 3	24 dBm	
Automower® Connect 4G	Power Class 3	23 dBm	

Husqvarna AB does not guarantee full compatibility between the product and other types of wireless systems such as remote controls, radio transmitters, hearing loops, underground electric animal fencing or similar.

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The guide loop is the loop that if formed by the guide wire and the part of the boundary wire from the junction with the guide wire to the right connection in the charging station.

The products are made in England or the Czech Republic. See information on the rating plate. Refer to *Introduction on page 3*.

## 8.2 Registered trademarks

The *Bluetooth®* word mark and logos are registered trademarks owned by *Bluetooth SIG, inc.* and any use of such marks by Husqvarna is under license.

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## 9 Warranty

#### 9.1 Warranty terms

Husqvarna warranty covers this product's functionality for a period of 2 years from date of purchase. The warranty covers serious faults relating to materials or manufacturing faults. Within the warranty period, we will replace the product or repair it at no charge if the following terms are met:

- The product and the charging station may only be used in compliance with the instructions in this Operator's Manual. This manufacturer's warranty does not affect warranty entitlements against the dealer/retailer.
- End-users or non-authorized third parties must not attempt to repair the product.

Examples of faults which are not included in the warranty:

- Damage caused by water seepage from using a high-pressure washer, or from being submerged under water, for example when heavy rain forms pools of water.
- · Damage caused by lightning.
- Damage caused by improper battery storage or battery handling.
- Damage caused by using a battery that is not a Husqvarna original battery.
- Damage caused by not using Husqvarna original spare parts and accessories, such as blades and installation material.
- · Damage to the loop wire.
- Damage caused by non-authorized changing or tampering with the product or its power supply.

The blades and wheels are seen as disposable and are not covered by the warranty.

If an error occurs with your Husqvarna product, please contact Husqvarna customer service for further instructions. Please have the receipt and the product's serial number at hand when contacting Husqvarna customer service.

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## 10 Applicable to US/CA market

# 10.1 Supplier's Declaration of Conformity

Issuer: Husqvarna AB, Drottninggatan 2, S-561 82 Huskvarna, Sweden www.husqvarnagroup.com.

Responsible party: Husqvarna Professional Products, Inc. 9335 Harris Corners Parkway Suite 500 Charlotte, NC 28269 United states U.S. Contact Information: Michael Campbell, Sr Director Quality, test compliance, Telephone: +1 704 597 5000.

#### 10.2 Compliance requirements

FCC ID: XPY1CGM5NNN (Automower® Connect module 2G/3G).

FCC ID: XPYUBX18ZO01 (Automower® Connect 2G/4G).

FCC ID: ZASHQ-BLE-1C (the Bluetooth® module).

The Bluetooth® module is located on the HMlboard (PCBA) in the upper chassis. It must only be accessed by an authorized service technician.



WARNING: To comply with RF exposure requirements, please maintain a separation distance of at least 20 cm / 7 inches from any part of the product.

**Note:** Changes or modifications made to this equipment not expressly approved by Husqvarna may void the FCC authorization to operate this equipment.

**Note:** This device complies with Part 15 of the FCC Rules [and with Industry Canada licenceexempt RSS standard(s)]. Operation is subject to the following two conditions: this device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by switching the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



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www.husqvarna.com

Original instructions

2021-01-18